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DE10227995

ANSWER 1 OF 2 CAPLUS:

2003:757652 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 139:262474

Method for the hydroformylation of olefins in the TITLE:

manufacture of C7-17 aliphatic alcohols using phase

separation

Toetsch, Walter; Arnoldi, Detlef; Kaizik, Alfred; INVENTOR(S):

Trocha, Martin

PATENT ASSIGNEE(S): Oxeno Olefinchemie G.m.b.H., Germany

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent German

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

								APPLICATION NO.					· ·					
	WO 2003078365						WO 2003-EP2383											
	WO 2003078365			A3 20040205														
		W:	AE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB	, BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	, EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	, KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN	, MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
			PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK	, SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	υs,	UZ,	VC,	VN,	ΥU,	ZA,	ZM	, zw						
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	sz	, TZ,	ŪĠ,	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	KZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG	, CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC	, NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ	, GW,	ML,	MR,	NE,	SN,	TD,	TG
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	AU	2003	2123	16		. A1		2003	0929		AU :	2003-:	2123	16		2	0030	308
	EP	1485	341			A2		2004	1215		EP :	2003-	7081	95		2	0030	308
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR,	BG,	CZ,	EE,	HU,	SK	
	CN	1649	815			Α		2005	0803		CN 2	2003-	8099	45		20	0030	308
	JP	2005	52989	53		T2		2005	1006		JP 2	2003-9	5763′	74		20	0030	308
	BR	2003	00843	32		Α		2006	0606]	BR 2	2003-8	8432			26	0030	308
	US	2005	17138	39		A1		2005	0804	1	us 2	2005-	5066	03		20	0050	308
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PRIO	RITY	APPI	LN.	INFO	. :					3	DE 2	2002-:	1021	1652	7	. 20	0020	315
										1	DE 2	2002-3	1022	7995	A	. 20	00,20	522
										1	WO 2	2003-1	EP238	33	W	-20	0030	308 .
ΔR	Δπ	ethod	is f	desc	ribe	ed fo	or n	rodu	cina	C7 - 1	17 a	aliph	. ald	cs. Y	which	COL	mori	ses '

A method is described for producing C7-17 aliph. alcs. which comprises the cobalt-catalyzed hydroformylation of C6-16 olefins or olefin mixts., using an aq. catalyst system, sepn. of the catalyst, and subsequent hydrogenation of the aldehydes to alcs. A liq.-liq. extn. is carried out after the sepn. of the catalyst in the aq. system and prior to the hydrogenation of the aldehydes in the org. system; process flow diagrams are presented.

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ANSWER 2 OF 2 WPIX:

ACCESSION NUMBER:

2003-731977 [69] WPIX

DOC. NO. CPI:

TITLE:

C2003-201549 Process for the production of 7-17 C aliphatic alcohols comprises cobalt catalyzed hydroformylation of 3-16C

olefins whereby the organic phase is extracted with a

water containing liquid.

DERWENT CLASS:

INVENTOR(S):

E17 ARNOLDI, D; KAIZIK, A; TOTSCH, W; TROCHA, M; TOETSCH, W

(OXEN-N) OXENO OELFINCHEMIE GMBH; (OXEN-N) OXENO PATENT ASSIGNEE(S):

OLEFINCHEMIE GMBH

COUNTRY COUNT:

PATENT INFORMATION:

PGPATENT NO KIND DATE WEEK LA______

WO 2003078365 A2 20030925 (200369) * GE 28

RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK

DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA

21

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A1 20030925 (200371) DE 10227995

104

A1 20030929 (200432) AU 2003212316

A2 20041215 (200482) GE EP 1485341

R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV

MC MK NL PT RO SE SI SK TR

US 2005171389 A1 20050804 (200552)

TW 2003006293 A 20031116 (200557)

JP 2005529853 W 20051006 (200566)

B2 20051101 (200571) US 6960699

CN 1649815 A 20050803 (200578)

A8 20051027 (200624) AU 2003212316

A 20060606 (200640) BR 2003008432

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003078365	A2	WO 2003-EP2383	20030308
DE 10227995	A1	DE 2002-10227995	20020622
AU 2003212316	A1	AU 2003-212316	20030308
EP 1485341	A2	EP 2003-708195	20030308
		WO 2003-EP2383	20030308
US 2005171389	A1	WO 2003-EP2383	20030308
		US 2005-506603	20050308
TW 2003006293	A	TW 2003-105431	20030313
JP 2005529853	W	JP 2003-576374	20030308
		WO 2003-EP2383	20030308
US 6960699	B2	WO 2003-EP2383	20030308
		US 2005-506603	20050308
CN 1649815	A	CN 2003-809945	20030308
AU 2003212316	A8	AU 2003-212316	20030308
BR 2003008432	A	BR 2003-8432	20030308
		WO 2003-EP2383	20030308

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FILING DETAILS:

PAT	TENT NO	KII	ND		J	PATENT NO
ΑU	2003212316	A1	Based	on	WO	2003078365
ΕP	1485341	A2	Based	on	WO	2003078365
JP	2005529853	W	Based	on	WO	2003078365
US	6960699	B2	Based	on	WO	2003078365
AU	2003212316	A8	Based	on	WO	2003078365
BR	2003008432	Α	Based	on	WO	2003078365

PRIORITY APPLN. INFO: DE 2002-10227995 20020622; DE 2002-10211652 20020315

AN 2003-731977 [69] WPIX

AB WO2003078365 A UPAB: 20031027

NOVELTY - A process for the production of 7-17 C aliphatic alcohols comprises cobalt catalyzed hydroformylation of 3-16C olefins whereby the organic phase is extracted with a water containing liquid.

DETAILED DESCRIPTION - A process for the production of 7-17 C aliphatic alcohols comprises:

- (a) cobalt catalyzed hydroformylation of 3-16C olefins;
- (b) treatment of the hydroformylation mixture with oxygen containing gases in the presence of acid, aqueous cobalt (II) salt solutions;
- (c) separation of the mixture from (B) into a cobalt salt containing aqueous phase and an aliphatic aldehyde containing organic phase;
 - (d) hydrogenation of the aldehyde containing organic phase whereby;
- (e) the organic phase from (C) is extracted with a water containing liquid.

 \mbox{USE} - The process is useful for the production of 7-17C aliphatic alcohols by hydroformylation.

ADVANTAGE - The product form the process has a low residual cobalt catalyst content.

DESCRIPTION OF DRAWING(S) - The drawing is a schematic diagram of the process.

Hydroformylation reactor 1 Synthesis gas 2 Olefin mixture 3

Hydroformylation mixture 5 Catalyst separation 8 Dwg.1/3